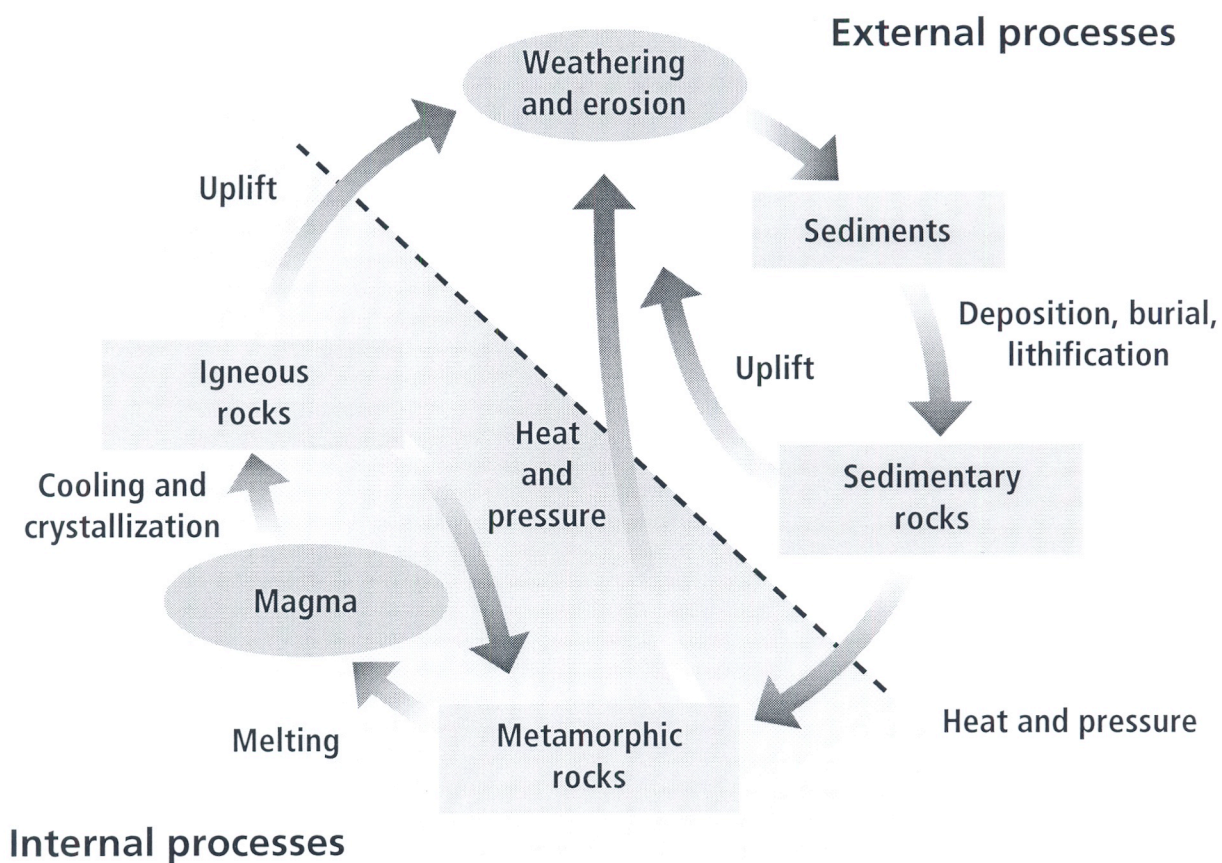


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# The Rock Cycle



# The Rock Cycle

1. What is the rock cycle?

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2. What three processes transform metamorphic and sedimentary rocks into sediments?

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3. What two processes transform sedimentary rocks into metamorphic rocks?

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4. What causes all types of rocks to be exposed to weathering and erosion?

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5. How can a metamorphic rock become an igneous rock?

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6. Describe two different paths an igneous rock can take to become another igneous rock.

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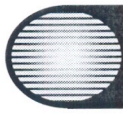
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7. Name two internal processes.

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8. Name two external processes.

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## Chapter Review

# Rocks

### Part A. Vocabulary Review

**Directions:** Match the terms in Column II with the descriptions in Column I. Write the letter of the correct term in the blank at the left.

#### Column I

- \_\_\_\_\_ 1. rocks formed by changes in heat and pressure or the presence of hot, watery fluids
- \_\_\_\_\_ 2. rocks formed from molten material
- \_\_\_\_\_ 3. rocks formed from sediments
- \_\_\_\_\_ 4. igneous rocks formed on or near Earth's surface
- \_\_\_\_\_ 5. layered metamorphic rocks
- \_\_\_\_\_ 6. process by which sediments are pressed together to form rock
- \_\_\_\_\_ 7. light-colored igneous rocks with a lower density than basaltic rocks
- \_\_\_\_\_ 8. dense, dark-colored igneous rocks
- \_\_\_\_\_ 9. metamorphic rocks that don't have layers
- \_\_\_\_\_ 10. process by which large sediments are glued together by dissolved minerals to form rock
- \_\_\_\_\_ 11. igneous rocks formed below Earth's surface
- \_\_\_\_\_ 12. bits of weathered rock, minerals, grains, plants, and animals that have been eroded
- \_\_\_\_\_ 13. model that illustrates the processes that create and change rocks
- \_\_\_\_\_ 14. magma that reaches Earth's surface and flows from volcanoes
- \_\_\_\_\_ 15. a mixture of minerals, organic matter, volcanic glass, or other materials

#### Column II

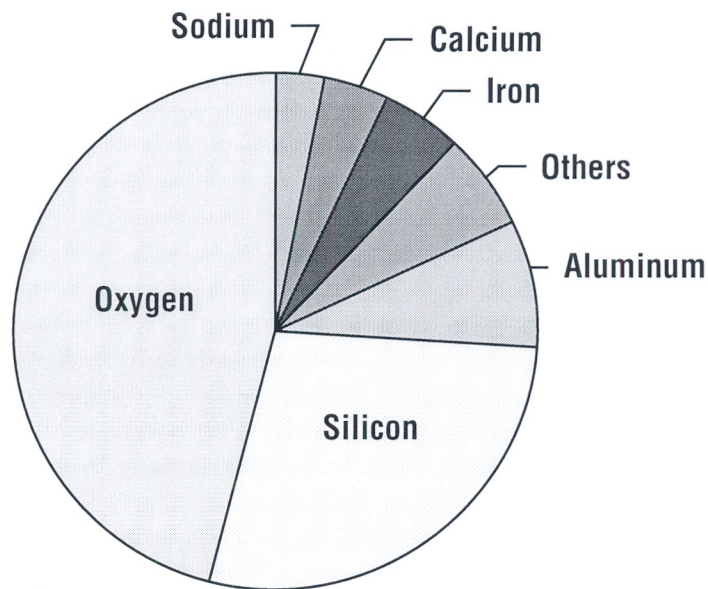
- a. granitic
- b. metamorphic rocks
- c. rock cycle
- d. sedimentary rocks
- e. cementation
- f. basaltic
- g. rock
- h. extrusive
- i. sediments
- j. igneous rocks
- k. compaction
- l. intrusive
- m. foliated
- n. lava
- o. nonfoliated



**Assessment  
Transparency Activity****Rocks**

**Directions:** Carefully review the graph and answer the following questions.

**Elements in Earth's Crust**



1. According to this information, which element in Earth's crust has a percentage greater than 40%?  
A Aluminum  
B Silicon  
C Iron  
D Oxygen
2. According to the graph, which element in Earth's crust has the **LEAST** percentage?  
F Aluminum  
G Sodium  
H Calcium  
J Iron
3. About how much greater is the percentage of aluminum in Earth's crust than that of iron?  
A less than 1%  
B 3%  
C 10%  
D 20%

## CHAPTER

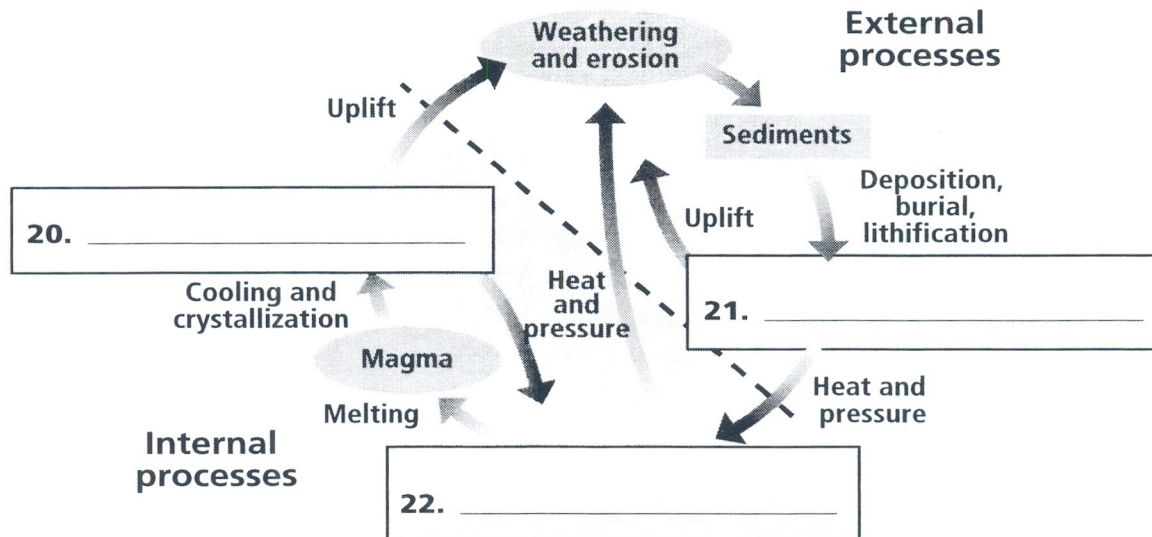
## 6

## STUDY GUIDE FOR CONTENT MASTERY

SECTION 6.3 *Metamorphic Rocks, continued*

In your textbook, read about the rock cycle.

Label each blank below as *igneous rocks*, *sedimentary rocks*, or *metamorphic rocks*.



Answer the following questions.

23. How are igneous rocks formed?

\_\_\_\_\_

24. What happens to igneous rocks that undergo weathering and erosion?

\_\_\_\_\_

25. How do sediments become sedimentary rock?

\_\_\_\_\_

26. What forces cause sedimentary rocks to be transformed into metamorphic rocks?

\_\_\_\_\_

27. How can metamorphic rock be transformed into igneous rock?

\_\_\_\_\_

28. How can sandstone be transformed into sediment without becoming metamorphic or igneous rock first?

\_\_\_\_\_

Complete the concept map by filling in the missing information.

